

## **ABSTRACT**

An inspection system for air cargoes, in which an accelerator, a collimator, and a vertical detector arm are all mounted on the floor; detectors are provided within both the horizontal detector arm and the vertical arm; the accelerator, the collimator, the horizontal detector arm and the vertical detector arm are provided in a same plane; the horizontal detector arm is supported by the upper end of the collimator, the vertical detector arm and the horizontal detector arm are connected to each other and provided in the side opposite to the accelerator; a stable portal-shaped frame is formed by means of the collimator, the horizontal detector arm and the vertical detector arm; the conveying device is located under the horizontal detector arm, being perpendicular to the portal-shaped frame, the collimator is provided between the conveying device and the frame.